

# ER/WM&I DDT



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**Closure #:** (Outgoing Correspondence Control #, if applicable)

**Due Date**

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Document Classification  
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Plan for Evaluating Water Treatment Activities at OU7 – AMT-054-97

May 14, 1997

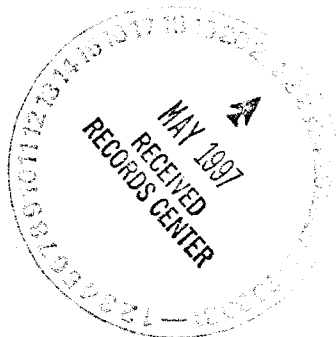
**Discussion and/or Comments:**

Please find the enclosed attachment "PLAN FOR EVALUATING WATER TREATMENT ACTIVITIES AT OU7." Please forward this plan to DOE for transmittal to EPA and CDPH&E.

Please contact Russ Cirillo at x5876 if you have any questions regarding this plan.

cc:

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## PLAN FOR EVALUATING WATER TREATMENT ACTIVITIES AT OU7

### OBJECTIVE

Establish a sampling methodology and path forward for the study of landfill seep water in order to evaluate the potential shutdown of the system and/or changes in waste management practices. A study will be performed to determine the extent of the benefit provided by the treatment system.

### BACKGROUND

Currently, granular activated carbon (GAC) is being utilized for the treatment of the OU7 seep waters. However, GAC has limited treatment capability for some constituents and may not offer adequate treatment capacity to justify the cost of operations. In addition, the data will assist in the evaluation of management practices if the system does continue to be operated.

### SAMPLING

The standard sampling procedures identified in the OU7 Sampling and Analysis Plan will be utilized to conduct the sampling. Sampling will focus on CLP Volatile and CLP Semi-Volatile constituents, since they are the parameters targeted for treatment using this GAC.

### METHODOLOGY

Two new 55 gallon drums of carbon will be put on-line in series (lead and a polish unit). Samples will be taken from four sources in the system process. These sources will include:

- \* Influent to the treatment system
- \* Lead GAC effluent
- \* Overall treated effluent
- \* Water from the landfill pond (per Surface Water procedures)

Each location will be sampled after one week, one month, and two months. After the two month sampling event is completed, the lead GAC unit will be taken off line and the polish unit will be moved into the lead position. A fresh unit will then be placed in the polish position (this type of "rotation" of the units reflects current management practice). When the "rotation" is completed, samples will again be taken after one week, one month, and two months.

### INTERPRETATION

The data obtained will reflect the ability of the constituents to load on the carbon over a period of several months. The "rotation" of the carbon will help provide information specific to the current management practices. Key trends to investigate are the following:

- 1) The concentration of a particular parameter through the system during each sampling event.
- 2) The concentration of a particular parameter over time at a single location.

After these parameters have been studied, a relative comparison can be made between the source water, treated water, and landfill pond water quality. This information will provide valuable data in the evaluation of the system and its potential discontinuation.

### REPORTING

An assessment report will be transmitted to DOE, EPA, and CDPH&E with a summarization of the information.

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Date

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CDPHE  
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Denver, CO 80220-1530

PLAN FOR EVALUATING WATER TREATMENT ACTIVITIES AT OU7 - XXX-XXX-97

Please find the enclosed attachment "PLAN FOR EVALUATING WATER TREATMENT ACTIVITIES AT OU7." Please provide your concurrence that this plan is a reasonable approach towards the evaluation of water treatment activities at OU7.

Please contact Russ Cirillo at x5876 if you have any questions regarding this plan.

Contact  
Title

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J. R. Cirillo - Bldg. T891B  
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Date

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PLAN FOR EVALUATING WATER TREATMENT ACTIVITIES AT OU7 - TGH-XXX-97

Please find the enclosed attachment "PLAN FOR EVALUATING WATER TREATMENT ACTIVITIES AT OU7." Please forward this report to EPA and CDPH&E for their concurrence.

Please contact Russ Cirillo at x5876 if you have any questions regarding this plan.

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PLAN FOR EVALUATING WATER TREATMENT ACTIVITIES AT OU7 - XXX-XXX-97

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